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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/943,360 | 08/31/2001 | Takashi Yasuhara | 381NP/50369 | 8668 |

7590 08/26/2003

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EXAMINER

SCHEUERMANN, DAVID W

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

2834

DATE MAILED: 08/26/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/943,360

Applicant(s)

YASUHARA ET AL.

Examiner

David W. Scheuermann

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 May 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) 12-17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 1-11 in a paper filed on May 30, 2003 is acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1 and 7 the article "the" may be inserted before the phrase "axial direction" on lines 6 and 4, respectively. There is no antecedent basis for "end sections" in claim 1, line 14. Furthermore, it is unclear whether there are singular or plural "open ends of opened end sections," claim 1, line 17, (emphasis added). Additionally, the phrase "an crossing over direction of the winding" is vague. What are the metes and bounds of "the crossing over direction"? There is confusion with the phrase "open ends" (in the last line of claim 1) and the number of such ends. How many "open ends" are claimed? As to claim 2, it is not clear what is meant by "different crossing over directions". What is the reference point for

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these different directions and how are they different? It is not clear what is defined by "the laminating direction" or "the latitudinal direction" in claim 4. In claim 7 it is not clear whether an "end section" is equivalent to and "end portion". Clarification is required. If they are equivalent, it is confusing to use different terminology for the same structure. What is the difference between "end section" and "end portion"? Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Neumeyer et al., US 4207482.

Neumeyer et al. show the invention of a dynamo electric machine comprising a stator core (14) having a plurality of slots (12, inherent that there are a plurality of slots) formed around the circumferential thereof each extending continuously in axial direction thereof and a stator winding formed by disposing a plurality of unit windings in the plurality of slots in such a manner that one of two side sections of a unit winding is

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disposed in a slot other than a slot where the other side section of the unit winding is disposed while crossing over a plurality of slots (inherent based on the relative dimensions of the coil winding shown in figure 3, in conjunction with the non-salient core 14), wherein each of the plurality of unit windings is formed by being divided at least into a first winding section (consisting of slot portions 33 and 34, loop 35, and stress grading system 36 having four portions as shown in figure 3 and described in column 5, lines 61-66) of which one of end sections is opened, opposing side sections are shaped so as to form a step (note the four portions of stress grading system 36) in the radial direction of the stator core, the open ends of opened end sections oppose each other in the radial direction of the stator core and the opened end sections are bent in an crossing over direction of the winding, and a second winding section (connecting loop 31) connecting the open ends of the first winding section.

Re claims 2 and 9, note in column 3, lines 37-39 that a coating of insulation 15 is disposed about conductor coils 13.

As to claim 7, note twisted loop 35 in figure 3.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Johnston et al., Lenz and Anderson et al. all teach plural loop coils of stator core winding having a flat-sided wire. Yasuhara et al. show a flat stator

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winding with u-shaped portions linked to form a coil via connecting end portions 5.

Ueda shows a flat stator coil formed by plural loop segments. Umeda et al. show a coil winding having side portions spaced three slots apart. Rhudy shows a stator core having slots shared by two coil windings.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David W. Scheuermann whose telephone number is (703) 308-9637. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

dws
August 20, 2003


BURTON S. MULLINS
PRIMARY EXAMINER